WHAT IS CLAIMED IS:

1. A recording medium having a data structure for managing video data recorded on the recording medium, comprising:

a plurality of data packets recorded on the recording medium;

a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded at a fixed time interval in a corresponding one of said plurality of data packets.

2. The recording medium of claim 1, wherein said fixed time interval is not greater than 700 milliseconds.

3. A recording medium having a data structure for managing video data recorded on the recording medium, comprising:

a plurality of data packets recorded on the recording medium;

a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded in a corresponding one of said plurality of data packets within a fixed recording area of the recording medium.

4. The recording medium of claim 3, wherein said fixed recording area is a sector.

5. The recording medium of claim 4, wherein said sector has a recording area of 2048 bytes.

6. The recording medium of claim 3, wherein each of said time control information areas is recorded in a first data packet within said fixed recording area of the recording medium.

7. The recording medium of claim 3, wherein each of said time control information areas is recorded in an arbitrary one data packet within said fixed

recording area of the recording medium.

8. A recording medium having a data structure for managing video data recorded on the recording medium, comprising:

a plurality of data packets recorded on the recording medium;

a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded in a corresponding one of said plurality of data packets within a fixed packet interval.

9. The recording medium of claim 8, wherein said fixed packet interval is 10 packets.

10. A recording medium having a data structure for managing video data recorded on the recording medium, comprising:

a plurality of data packets recorded on the recording medium;

a plurality of program reference timing control areas recording in said plurality of data packets on the recording medium;

a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded in a corresponding one of said plurality of data packets also having one of said program reference timing control areas.

11. A method of recording a data structure for managing reproduction of video data recorded on the recording medium, comprising:

recording a plurality of data packets on the recording medium;

recording a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded at a fixed time interval in a corresponding one of said plurality of data packets.

12. A method of reproducing a data structure for managing reproduction of

video data recorded on the recording medium, comprising:

reproducing a plurality of data packets recorded on the recording medium;

reproducing a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded at a fixed time interval in a corresponding one of said plurality of data packets.